

CLAIMS

1. An apparatus for laying a material sheet on a number of cylindrical bodies, for example sleeves of paperboard or the like, which are employed int. al. within the
5 papermaking industry for winding a manufactured paper web, sheet web or the like, **characterised in that** a conveyor is disposed to advance the cylindrical bodies in the longitudinal direction thereof, to, past and away from a unit for supplying a material web to the bodies, and that the conveyor is divided into at least two sections, of which the one is disposed to displace the cylindrical bodies in their longitudinal
10 direction up to connection with the end of a preceding body, and of which the second section is disposed to positively rotate the cylindrical bodies about their longitudinal axis and displace the cylindrical bodies in the direction of their longitudinal axis during application of the material web, with the desired spacing between the edges of the applied material web.
- 15 2. The apparatus as claimed in claim 1, **characterised in that** the one conveyor section is disposed to displace the bodies at a higher speed ahead of the unit for applying the material web for connection of the bodies to the end of the preceding body and to permit slipping of the bodies after the connection to the end of the
20 preceding body.
- 25 3. The apparatus as claimed in claims 1 and 2, **characterised in that** the conveyor sections comprise a number of wheels disposed on either side of the bodies, the wheels being obliquely inclined in relation to the longitudinal axis of the bodies for rotation and driving thereof towards, past and away from the unit for applying the material web.
- 30 4. The apparatus as claimed in claim 3, **characterised in that** the wheels are rotary by means of a driving belt extending about their periphery, on which the sleeve rests and which extends to and around a drive pulley.
5. The apparatus as claimed in claims 3 and 4, **characterised in that** the wheels are arranged pairwise and are obliquely inclined pairwise for regulating the advancement speed of the bodies.

6. The apparatus as claimed in claim 5, **characterised in that** the wheel pairs in the one section of the conveyor may be obliquely inclined independently of the wheel pairs in the second section of the conveyor.
- 5 7. The apparatus as claimed in claim 4, **characterised in that** the drive pulleys for the wheels on the one side are disposed on a common shaft and that the shafts are interconnected to one another and a drive unit for synchronous driving of the shafts and thereby the pulleys and the obliquely inclinable wheels.
- 10 8. The apparatus as claimed in claim 7, **characterised in that** the shafts in the one conveyor section are discrete and separate from the shafts in the second conveyor section in order to permit differentiated driving of the wheel pairs in the different sections.
- 15 9. The apparatus as claimed in any of claims 1 to 8, **characterised in that** a knife is arranged to cut the applied material web at the end of the body after its passage of the unit for applying the material web during conveying-off of the body therefrom.
- 20 10. The apparatus as claimed in claims 1 and 4, **characterised in that** a number of wheels are provided above the bodies at the unit for applying the material web for urging the bodies against the conveyor wheels.
- 25 11. The apparatus as claimed in claims 1 and 4, **characterised in that** a trailing wheel is provided for abutment against the cylindrical body flush with a point where the material web is applied is applied on the cylindrical body.
- 30 12. Use of the apparatus as claimed in claim 1 for preparing substantially joined sleeves, for example paperboard sleeves, which are cut to the desired length and which are employed within, int. al. the papermaking industry for winding a manufactured paper web, sheet web and the like, **characterised in that** the joined sleeves are placed in sequence after one another on the one section of the conveyor and advanced end-to-end under rotation about their longitudinal axis to, past and

away from the unit for applying a material web in the second section of the conveyor, with the desired spacing between the edges of the material web.

13. Use as claimed in claim 12, **characterised in that** the outside of the joined

5 sleeves is ground before the application of the material web.

14. Use as claimed in claim 12 or 13, **characterised in that** the surface of the material web facing towards the outside of the joined sleeves is coated with glue prior to the application.

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15. Use as claimed in claim 14, **characterised in that** the opposing side of the material web in relation to the glue is moistened for evening out tensions in the glued material web.

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16. A sleeve for use as claimed in claim 12, **characterised in that** the female section of the sleeve joint on the sleeve parts is bevelled and that the male section of the sleeve parts is bevelled, that at least the one chamfer is coated with glue and that the male section and the female section are pressed together.

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17. The sleeve as claimed in claim 16, **characterised in that** the one sleeve section in the joint is bevelled from the inside to the outside and the other sleeve section is bevelled from the outside to a distance from the inside for forming a space between the insides of the sleeve sections.

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18. The sleeve as claimed in claims 16 and 17, **characterised in that** the angle of the chamfer is flat, from 5° to 20°, preferably 10°, in relation to the longitudinal axis of the sleeve.